RECIPROCATING PUMP

25YCY14-1B Axial Piston Variable displacement pump

ISO9001 Supplier

Class Certificate

Export Supply

Product overview: CY14-1B series pump is an axial piston pump with cylinder rotation and variable head (swashplate). As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and t...



Key Highlights

Category	Reciprocating Pump
Standard	DIN
Weight / Size	Therefore, compared with other types of pumps, the pump has the advantag...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications			
Category	Reciprocating Pump	**Model / SKU**	25YCY14-1B-Axial-Piston-Variable-displacement-pump
Standard	DIN	**Weight / Size**	Therefore, compared with other types of pumps, the pump has the advantages of simple structure, small volume, high efficiency, light weight, low noise, long service life, strong self-priming capacity, etc.
Surface	As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and the variable head, and between the oil distribution plate and the cylinder block, the above two pairs of moving surfaces are operated under pure liquid friction, and heavy thrust bearings are omitted.	**Certificate**	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	**Origin**	China

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Product overview:

CY14-1B series pump is an axial piston pump with cylinder rotation and variable head (swashplate). As the oil film thickness design of hydrostatic balance is adopted between the sliding shoe and the variable head, and between the oil distribution plate and the cylinder block, the above two pairs of moving surfaces are operated under pure liquid friction, and heavy thrust bearings are omitted. Therefore, compared with other types of pumps, the pump has the advantages of simple structure, small volume, high efficiency, light weight, low noise, long service life, strong self-priming capacity, etc. It is suitable for forging and pressing machinery, machine tools, ships, aviation Hydraulic equipment such as metallurgical machinery, plastic machinery, engineering machinery and mining machinery.

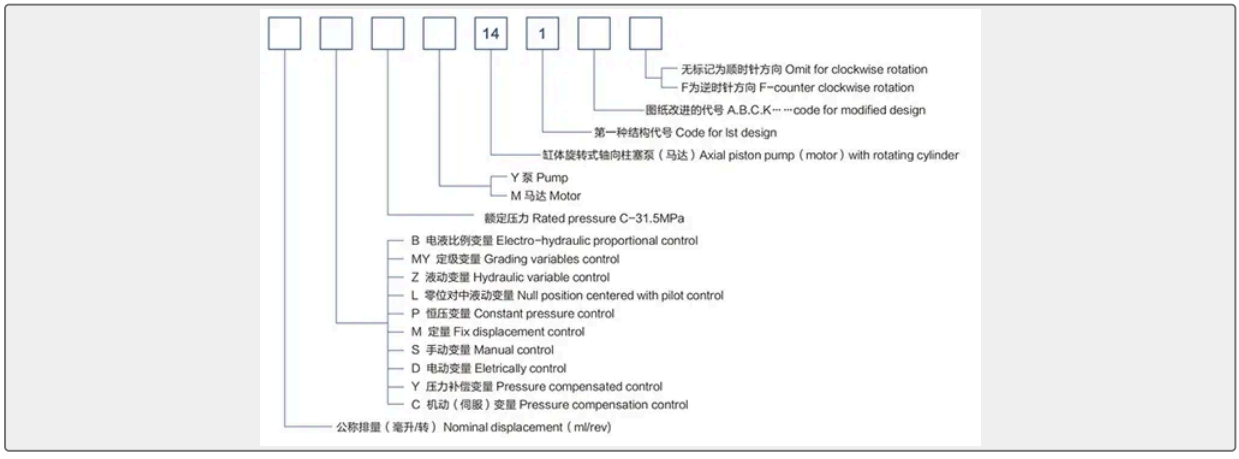


Working principle:

The main body (as shown in Fig. 1) is driven by the transmission shaft to rotate the cylinder block, so that the seven plungers evenly distributed on the cylinder block rotate around the center line of the transmission shaft. The sliding shoes in the column sliding components are pressed on the thrust plate (or swashplate) by the central spring. At the same time, the cylinder block is pressed on the oil distribution plate by the central spring through the outer sleeve, playing an initial sealing role. In this way, the plunger reciprocates with the rotation of the cylinder block, completing oil suction and oil pressure.



Model description:



Technical data:

Model	(MPa) Continuous working pressure	(ml/rev) Nominal displacement	(r/min) Rated power	(KW) Rated power	(kg) SCY14-1B Weight
2.5*CY(M) 14—1B	31.5	2.5	3000	4.4	7.2
5*CY(M) 14—1B		5	1500	4.4	8.2
10*CY(M) 14—1B		10	1500	8.7	19
16*CY(M) 14—1B		16	1500	14	35
25*CY(M) 14—1B		25	1500	21.8	35
32*CY(M) 14—1B		32	1500	28	35
40*CY(M) 14—1B		40	1500	35	35
63*CY(M) 14—1B		63	1500	55	63
80*CY(M) 14—1B		80	1500	70	63
108*CY(M) 14—1B		108	1500	94.5	73
160*CY(M) 14—1B		160	1000、1500	93、 139	128
250*CY(M) 14—1B		250	1000、1500	145、 218	227
400*CY(M) 14—1B		400	1000	232	235

Size:

